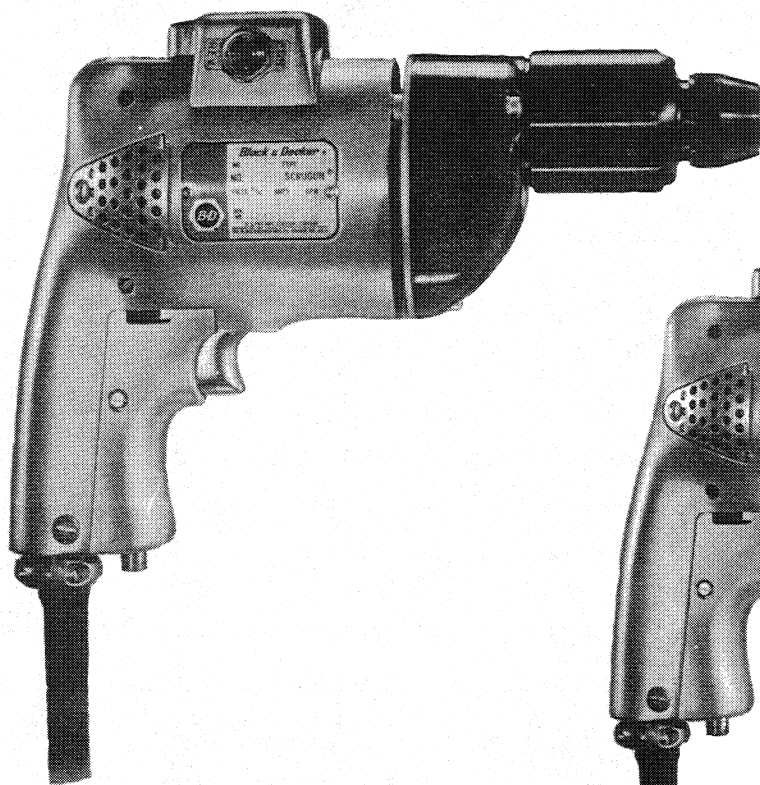
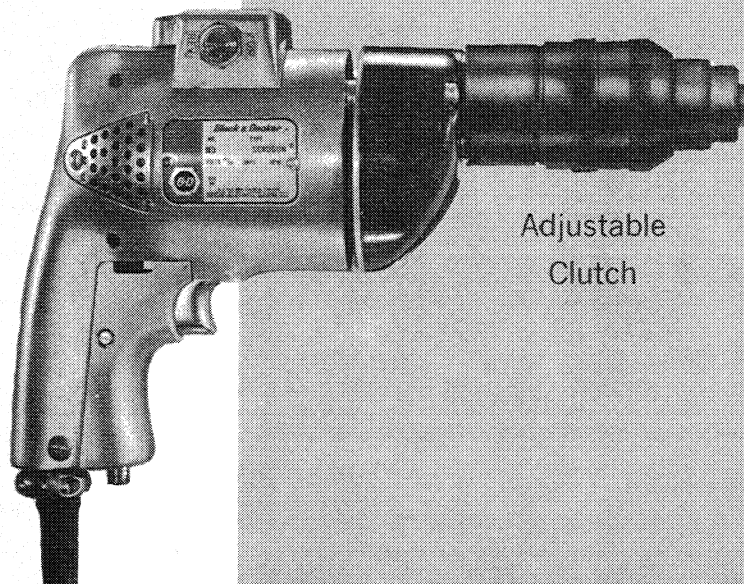


# ***Black & Decker***

## POWER TOOLS



Positive Clutch



Adjustable  
Clutch

## OWNER'S MANUAL

**SAFETY  
SEAL**   
power tool institute

This booklet is provided for your convenience in the use and care of your new Black & Decker tool. These instructions include operation, safety precautions, preventive maintenance, maintenance and other pertinent data to assist you in assuring long life and dependable service.

No. 12  
**SCRUGUN**<sup>®</sup>  
**SCREWDRIVER Cat. Nos.**

350, 402, 2045-572,  
2055-573, 2035-740-2



## SAFETY RULES FOR POWER TOOLS

1. **KNOW YOUR POWER TOOL**—Read owner's manual carefully. Learn its applications and limitations as well as the specific potential hazards peculiar to this tool.
2. **GROUND ALL TOOLS—UNLESS DOUBLE-INSULATED.** If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If adapter is used to accommodate two-pronged receptacle, the adapter wire must be attached to a **known ground**. **Never** remove third prong.
3. **KEEP GUARDS IN PLACE** and in working order.
4. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
5. **AVOID DANGEROUS ENVIRONMENT.** Don't use power tool in damp or wet locations. And keep work area well lit.
6. **KEEP CHILDREN AWAY.** All visitors should be kept safe distance from work area.
7. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, high or locked-up place—out of reach of children.
8. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
9. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool.
10. **WEAR PROPER APPAREL.** No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.
11. **USE SAFETY GLASSES** with most tools. Also face or dust mask if cutting operation is dusty.
12. **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.
13. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
14. **DON'T OVERREACH.** Keep proper footing and balance at all times.
15. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp at all times, and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
16. **DISCONNECT TOOLS.** When not in use, before servicing; when changing accessories such as blades, bits, cutters, etc.
17. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
18. **AVOID ACCIDENTAL STARTING:** Don't carry plugged-in tool with finger on switch.

## SWITCHES

Pulling the Trigger Switch turns the tool "ON"; releasing the trigger turns the tool "OFF". To lock switch "ON", depress trigger, hold in locking button, and release trigger. Release button and tool will stay "ON". To then turn tool "OFF", depress and release trigger.

The reversing switch is mounted on the top of the tool and for driving fasteners is placed in the forward position. To reverse rotation for fastener removal, first release trigger to turn tool "OFF", then move toggle switch back to reverse tool.

**For maximum tool life avoid excessive reverse operation.** For those operations where the tool is used primarily in reverse, see your Black and Decker Distributor or Black and Decker Service Center.

## MOTOR

Your Black and Decker tool is powered by a B&D built motor. Be sure your power supply agrees with nameplate marking. **Volts AC** means **Alternating Current** (25 to 60 cycles) **ONLY**. **VOLTS AC/DC** means it will also operate on **Direct Current**. Voltage variation of more than 10% will cause loss of power and over-heating. All B&D tools are factory-tested; if this tool does not operate, check the following: Supply line for blown fuses; plug and receptacle for contact; carbon brushes for contact.

## COMMUTATOR AND BRUSHES

Inspect carbon brushes often. Replace when brushes are worn down to the identifying letter or groove or when spring exerts insufficient pressure to hold brush against commutator. Keep brushes clean and sliding freely in guides. Inspect commutator for dirt and excessive wear. If dirty or rough, clean **lightly** with very fine sandpaper (not emery cloth). If badly worn or grooved, send tool to our nearest service station for repair (see back page).

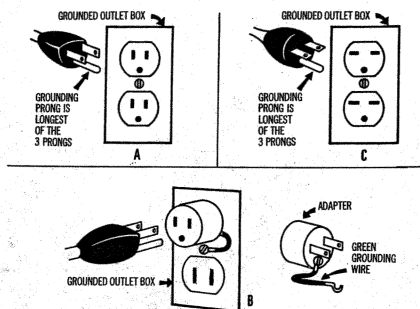
## GROUNDING

These units are equipped with approved 3-conductor cord and 3-prong grounding type attachment plug to be used with the proper grounding type receptacle, in accordance with the National Electrical Code and Canadian Electrical Code.

IF YOUR UNIT REQUIRES LESS THAN 150 VOLTS IT HAS A PLUG THAT LOOKS LIKE FIG. "A". It will fit directly into the proper type of 3-wire grounding receptacle. The unit is then grounded automatically each time it is plugged in.

Shown in Fig. "B" is a special grounding adaptor (not allowed in Canada by the Canadian Electrical Code) which is available from your dealer and will permit using a 2-wire receptacle. The green grounding wire extending from the side of the adaptor must be connected to a **PERMANENT GROUND**.

IF THE UNIT REQUIRES FROM 150 TO 250 VOLTS, IT HAS A PLUG LIKE FIGURE "C". No adapter is available and it should be used in the proper standard matching 3-wire grounding receptacle.



## CABLE

The cable is the "life line" of your tool—keep it clean by wiping it off occasionally. Keep it out of oils and greases which ruin the rubber. Coil it neatly when not in use and avoid dragging it across sharp surfaces or using it as a handle to lift the tool. When using the tool at a considerable distance from power source, an extension cable of adequate size must be used to prevent loss of power and over-heating. Use the table below for 115-volt tools. For 220-volt tools, use wire size corresponding to an extension length of 1/2 the contemplated length.

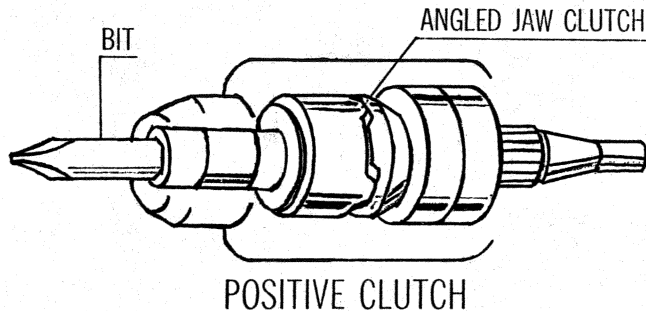
Ampere rating (on nameplate)	0 to 2.0	2.10 to 3.4	3.5 to 5.0	5.10 to 7.0	7.10 to 12.0	12.1 to 16.0
Ext. Cable length	Wire Size (A.W.G.)					
25 ft.	18	18	18	18	16	14
50 ft.	18	18	18	16	14	12
75 ft.	18	18	16	14	12	10
100 ft.	18	16	14	12	10	—
150 ft.	16	14	12	12	—	—
200 ft.	16	14	12	10	—	—

## OPERATION—CLUTCHES

In all Black and Decker Scruguns, a clutch provides a "dead" or stationary front spindle to permit the driving accessory to "locate" the screw slot or nut. Forward pressure then engages the clutch and drives the fastener.

No. 12 Scruguns are equipped with either a "Positive" or "Adjustable" clutch. Operation of these clutches is as follows:

**Positive Clutch**—With the positive clutch, output torque of the screwdriver is directly controlled by operator pressure against the fastener. A heavy forward pressure will hold the clutch engaged to a high torque; while light forward pressure allows the clutch to disengage at a lower torque. Release of pressure completely disengages the clutch. Maximum torque on a fastener is reached by maintaining forward pressure on the tool and allowing the clutch to ratchet momentarily; the resultant hammering will further tighten the fastener.



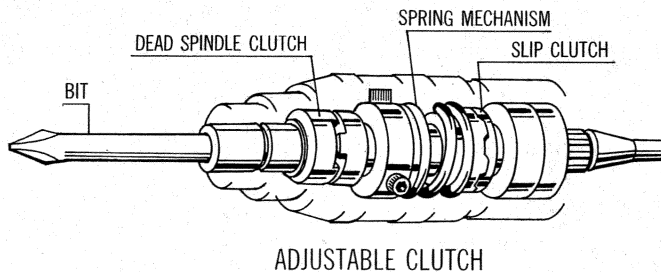
**Adjustable Clutch**—The adjustable clutch mechanism allows the operator to drive a series of fasteners to a pre-set uniform torque. Torque output is controlled mechanically by a spring loaded clutch mechanism and operator pressure on the tool has no effect on output. The adjustable clutch mechanism is also provided with a dead spindle so that complete release of pressure on tool will disengage output spindle.

To adjust the clutch, slide the locking ring toward the gear case. This action unlocks the adjusting ring and allows it to be rotated. Turning the adjusting ring so that it moves toward the gear case will increase the output torque of the clutch.

An increase in the force required to turn the adjusting ring indicates that the clutch setting is increasing.

Turning the ring so that it moves away from the gear case will decrease the clutch setting. This is matched with a decrease in effort required to turn the adjusting ring. CAUTION: Once the adjusting ring is free from spring pressure additional loosening has no further effect on the clutch and should be avoided.

If the adjusting ring is loosened too far it will come off the tool allowing the locking ring and spring also to come off. No damage is done and these can be reassembled by operator.



## LUBRICATION

Black and Decker Tools are completely lubricated at factory and are ready for use. Gears should be relubricated every 60 days to 6 months depending upon use. To lubricate, remove gear case, wipe out old grease, and refill gear case with B&D Heavy-Duty Grease to the amount specified on the Parts List packed with your tool.

It is also recommended that the clutch faces be given a light greasing after every 50 hours of usage. Refer to "exploded" parts bulletin (included with your tool) if you have any difficulty in making the minor disassembly necessary to reach the clutch.


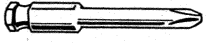

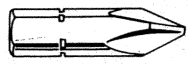
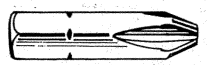

## CLEANING

With the tool motor running, blow dirt and dust out of all air vents with dry air at least once a week. Also blow any dirt out of Switches, Quick-change Chuck or Screw Depth Locator. If your tool has a Locator, it should be disassembled after each day's work and all parts cleaned with kerosene or other cleaning solvent. Preferably, dry parts with an air hose with the motor running.

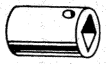
## ACCESSORIES

Number 12 Scrugun Models can utilize practically every type of fastening accessory (bits, bit tip holders, shanks for sockets, etc.) with a 1/4" hex shank.

Your Tool will handle a wide variety of bits and other fastening accessories. Some of these are listed below, but for the very many other types and sizes of accessories please see your Black & Decker Distributor, or refer to Black & Decker Catalog No. 1.

<p><b>A. SQUARE DRIVE SHANKS —</b></p> 	<p><b>SQUARE DRIVE SHANKS —</b></p> <p>1/4" HEX DRIVE SHANK</p> <p>No. 20510 2" Overall Length, For 1/4" Square Drive Sockets</p> <p>No. 20511 6" Overall Length, For 1/4" Square Drive Sockets</p>
<p><b>B. PHILLIPS HEAD BITS —</b></p> 	<p><b>PHILLIPS HEAD BITS —</b></p> <p>1/4" HEX DRIVE SHANKS</p> <p>No. 54595 No. 1 Point, 1-15/16" Overall Length</p> <p>No. 54592 No. 2 Point, 1-15/16" Overall Length</p> <p>No. 54594 No. 3 Point, 1-15/16" Overall Length</p>
<p><b>C. BIT TIP HOLDERS —</b></p> 	<p><b>BIT TIP HOLDERS —</b></p> <p>1/4" HEX DRIVE SHANKS</p> <p>No. 61108 Non-Magnetic, For 1/4" Bit Tips</p> <p>No. 63957 Magnetic, For 1/4" Bit Tips</p>
<p><b>1/4" HEX BIT TIPS</b></p>	
<p><b>D.</b></p> 	<p>No. 38403 Phillips, No. 1 Point</p> <p>No. 38404 Phillips, No. 2 Point</p> <p>No. 38405 Phillips, No. 3 Point</p>
<p><b>E.</b></p> 	<p>No. 61102 Phillips Pozedriv®, No. 2 Point</p> <p>No. 61104 Phillips Pozedriv®, No. 3 Point</p>
<p><b>F.</b></p> 	<p>No. 38406 Frearson Type (Reed &amp; Prince)</p>

## SOCKETS (Use with Square Drive Shanks)

G.	Cat. No.	Type	Hex Size	Diam.
	20512	Non-Mag.	1/4"	1/2"
	20514	Non-Mag.	5/16"	1/2"
	20516	Non-Mag.	3/8"	9/16"
	38420	Magnetic	1/4"	7/16"
	38422	Magnetic	5/16"	1/2"
	38424	Magnetic	3/8"	9/16"

**SLOTTED HEAD SCREWS** are easily driven with "Bit and Finder" accessories. Finder Sleeve No. 65879 adapts the thread on the front of the clutch housing to hold all 719000 series Finders which then become integral with the housing.

If you prefer, separate Bits with Rotating Finders are available to mount directly in the Scrugun chuck. See your B&D Catalog No. 1 for the complete selection of accessories.

# FACTORY SALES and SERVICE CENTERS

	Area Code	Telephone No.		Area Code	Telephone No.
ALABAMA: Birmingham 35233, 1717 Third Ave., South.....	205	324-6691	NEBRASKA: Omaha 68102, 2218 Leavenworth Street.....	402	345-2330
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Sacramento 95814, 1915 Seventeenth Street.....	916	444-3188	New York 11377, 56-15 Queens Blvd. (Woodside).....	212	DE 5-1042
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